

Family & Social Services Administration

Division of Technology Services

VISION



Office of Architecture & Standards

FSSA IT VISION

- Driven By Business Needs and Requirements
- Customer/Client Focused
- Provide Information Sharing, Integrated, and Secure IT Environment
- Provide Quality IT Services
- Provide Well Trained IT Staff

Our Business Environment

- High Degree of Federal Involvement
 - Regulations
 - Controls
 - Audits
 - No Proprietary Systems
- High Degree of Compartmentalized Funding
- Budget Constraints
- Demand is Externalized (Not Controlled by Us)
 - Politics
 - Demographics
 - Law
 - Economic
- Election Cycles
- Dynamic Organization

Business Goals for FSSA

- Creating Good Paying Jobs for All Hoosiers
- Assuring All Children Have Access to Quality Health Care and World Class Education
- Making Sure Seniors and People with Disabilities and the Disadvantaged Have the Independence and Support that they Need
- Protecting the Safety of our Citizens from Threats Both Inside and Outside the State
- Enhancing the Quality of Life and the Quality of Place for All Hoosiers

Business Model – “AS IS”

- Administration Organized by Function
- Programs Organized by Division
- Information Systems are Micro-cosmic and specific to the Program Area
- Budget and Funding Specific to Program Area
- Systems of Collaboration In Place, but are Limited by Environmental Factors

Business Model – “TO BE”

- Processes that Align Services by Function
- Information Systems that Deliver Common Processes
- Integrated High Quality Data that is Performance and Control Driven
- Efficient Portfolio of Processes
- Risk Mitigation

Business Driven Approach to VISION Development

- Technical Support of FSSA, Division, Bureau/Office, and Program Goals and Initiatives
- Must Be Client/Customer Friendly
- Business Units are Our Customers
- Be Flexible to Change
- Promote Partnering between Our Customers and DTS

DTS Guiding Principles

- Be Business Driven
- Be Cost Effective
- Be Timely
- Be Responsive To Change
- Create Integrated Systems
- Protect Data As A Valuable Asset
- Quality Outcomes

DTS Direction

- Provide Quality High Speed Networks
- Manage Hardware/Software/Applications
- Support Technology Needed For Staff and Business Partners

VISION Sections

- Applications Architecture
- Information (Data/Database) Architecture
- Operational Technology Architecture

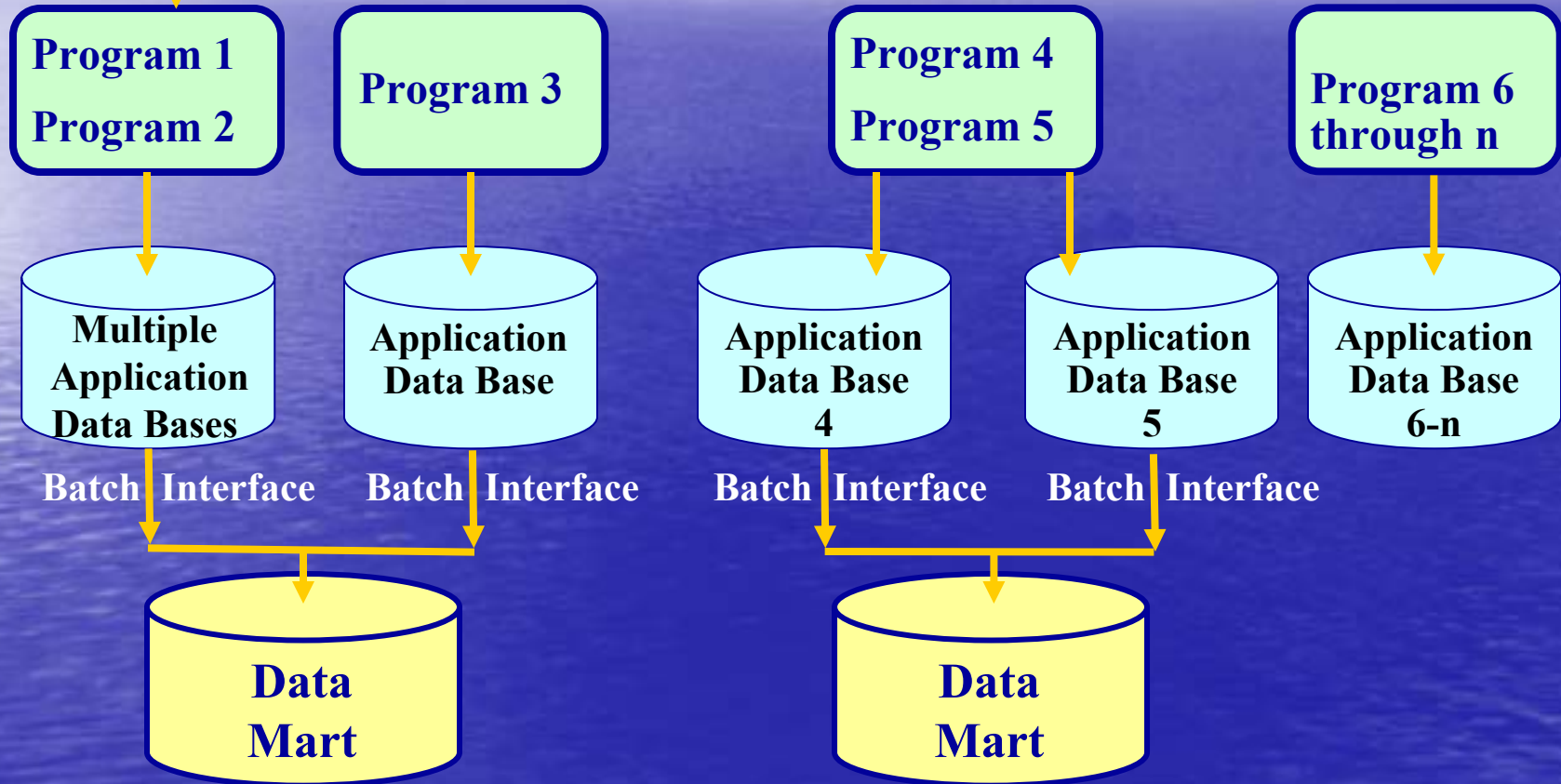
Applications Architecture Direction

- Maintain and Enhance Technical Infrastructure
- Integrate Applications
- Fulfill Data Access and Security Requirements
- Paper-Based to Web-Based Processes
- Strengthen Web as Delivery System
- Standardize Access to Data and Information
- Leverage Legacy Systems

Application Architecture – “AS IS”

FSSA

Divisions

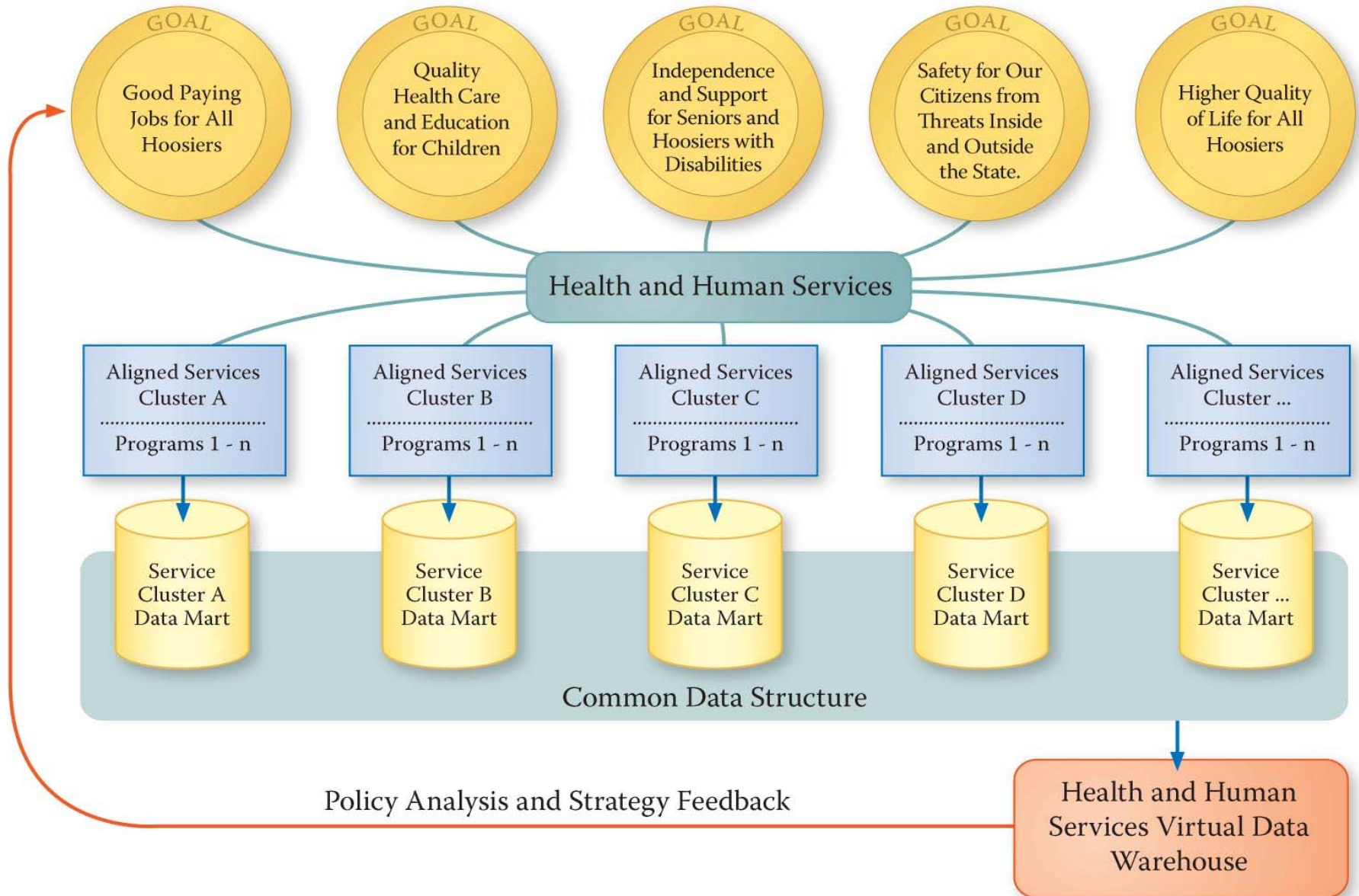


No common Data Structures
No Virtual Data Warehouse

Applications Architecture “AS IS”

- Many Applications which Support a Single Program
- High Degree of Heterogeneous Tools and Technologies
- 20+ Systems Supply Data to Data Warehouse
- Few Systems using Web-Publishing
- Few Browser/Web-Based
- Connection Via Emulation and Middleware

Integrating Aligned Services



Application Architecture – “TO BE”

- Deliver Applications that are Business Driven, Affordable, Scaleable, Maintainable, Adaptable to Change, and Portable across Platforms
- Promote Partnering between Business Units and IT
- Leverage Modern Technology Tools
- Leverage Statewide Technology Initiatives

Application Architecture Strategies

- Browser Front-End Legacy Systems
- Use Data Warehousing Technologies to Create Common Reporting Environment
- Build and Maintain Agency-wide Development Environment which Feature Re-Useable components
- Migrate to Browser-based Applications

Application Architecture Strategies (Continued)

- Application Development Environment – Component/Modular
- Anytime, Anywhere Access to:
 - All Systems (Inside or Outside State)
 - Information (Inside or Outside State)
 - Office Automation (Word Processing, E-Mail, Scheduling, and Spreadsheet)
 - Web (Internet and Intranet)
- Implement Job Function Portal Approaches

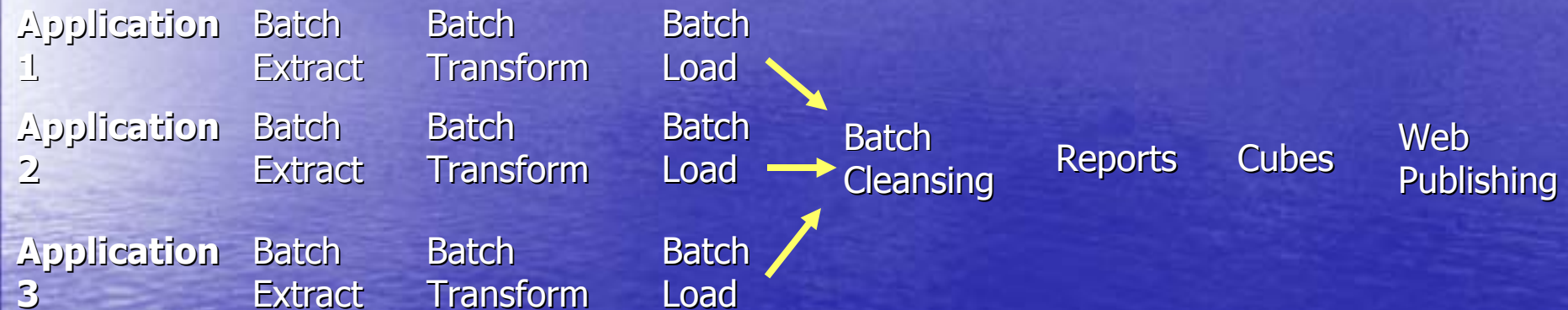
Application Architecture Strategies (Continued)

- Document Management – Workflow, Electronic Signature, Approval Routing
- Integrate Systems that are in the Same Benefit Chain Managed by a Single Case Worker (e.g. TANF, Food Stamps, IMPACT)

Information Architecture Direction

- Collect and Share Information Across All Programs
- Improve Data Accessibility For the Agency and Business Partners
- Implement Security and Privacy Requirements

Information Architecture– “AS IS”



Data Administration:

- Some Modeling
- Little Meta Data
- One Data Administrator

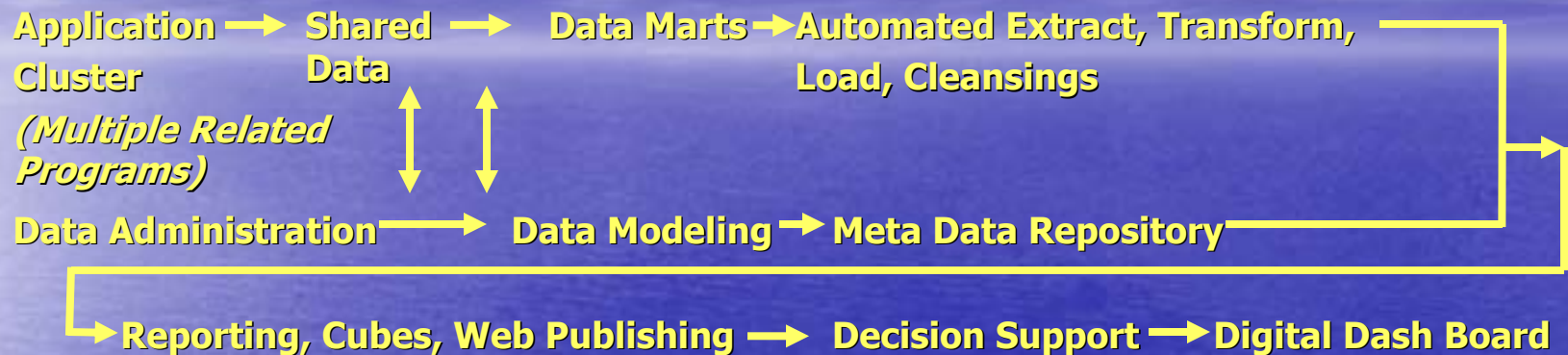
Information Architecture – “AS IS”

- Some Policies, Guidelines, Standards in Place
- Tools in Place – Cognos and Ascential Suites, Modeling
- Starting Meta-Data and Extract, Transform, Load Processes
- Data Warehouse Tools in Use by TANF, ICES, Mental Health, Financial, and Audit

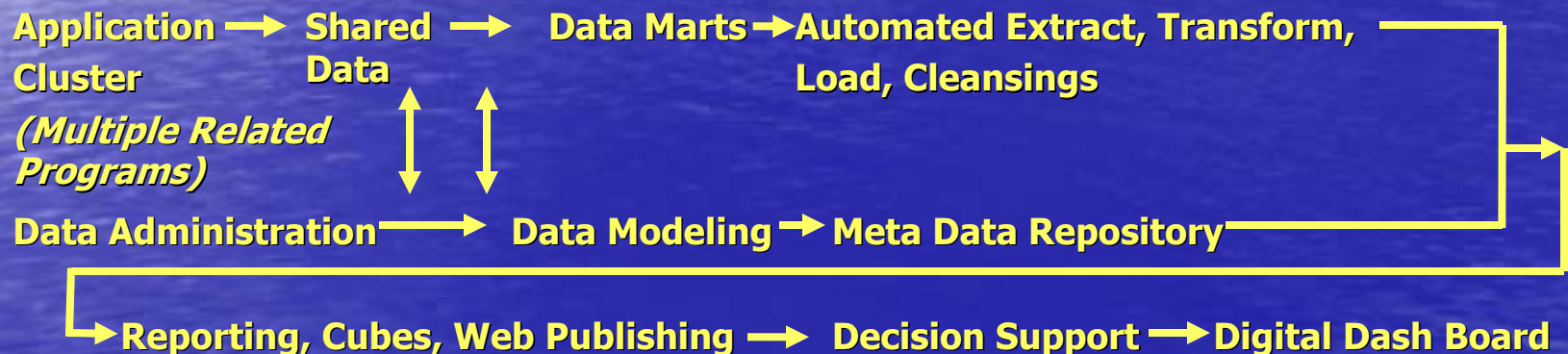
Information Architecture– “TO BE”

Right Data, Right Time, Right Place

1



2



Virtual Enterprise Data Warehouse Accessing Multiple Data Marts

Information Architecture – “TO BE”

- Provide and Implement Tools, Procedures, and Policies to Manage Information as a Valuable Resource
- Be Responsive to Change
- Plan and Implement Data Integration
- Improve Data Access, Sharing, Quality, and Security
- Expand and Implement Data Standards for Defining, Using, Sharing Information

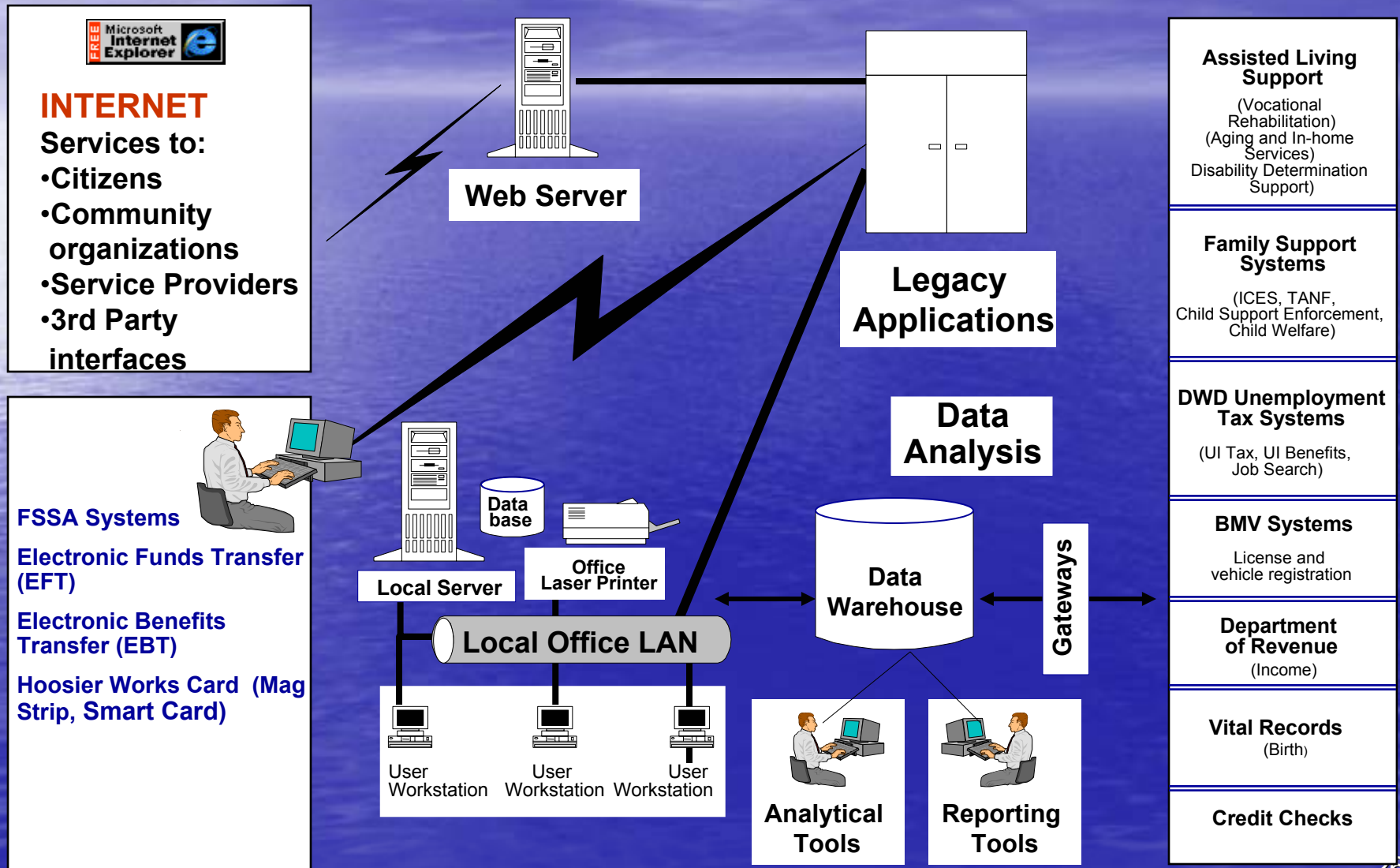
Information Architecture Strategies

- Expand Use of Centralized Meta-Data Repository that Stores and Organizes Information about our Data
- Expand Use of Data Modeling to Support Integrated Data Environment
- Implement Common Client Index
- Implement Electronic Document Management

Information Architecture Strategies (Continued)

- Expand Data Warehouse Principles to Support Agency-wide (Virtual Data Warehouse) Reporting, Decision Support, and Digital Dash Board Policies
- Implement GIS Technologies
- Empower Users with Expanded Capabilities
- Provide Secure and Protected Data Environment

Operational Architecture – “AS IS”

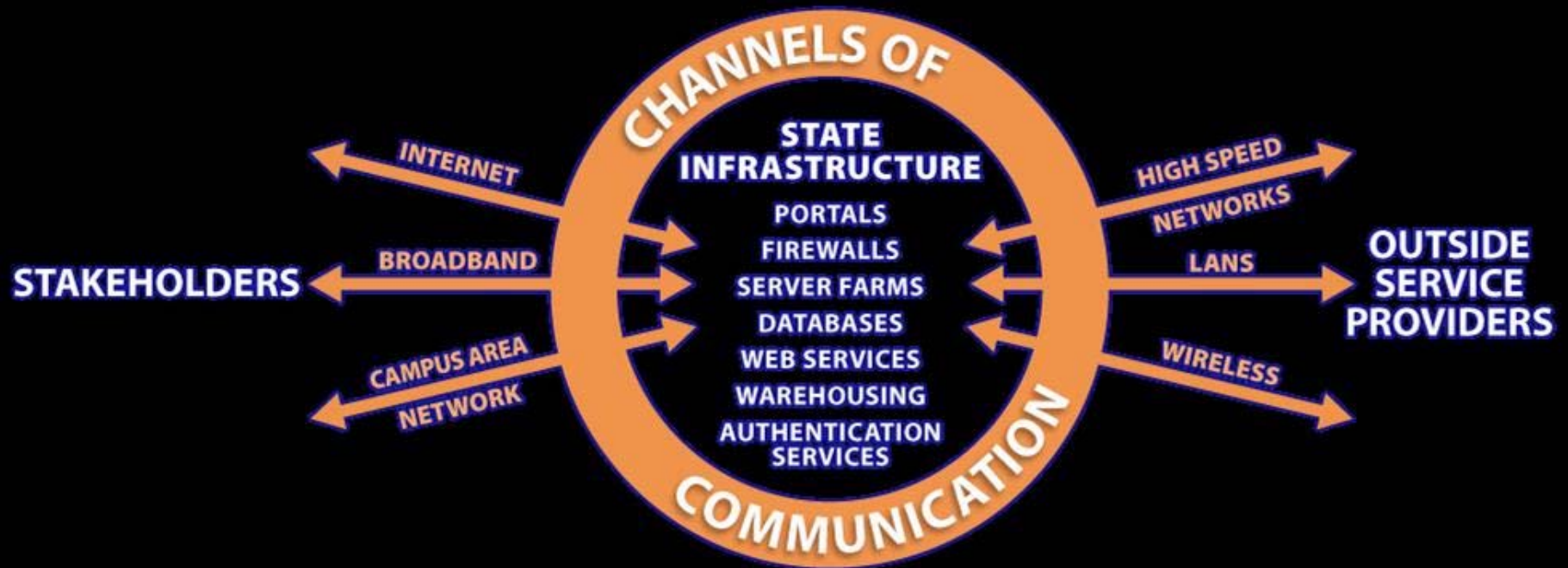


Operational Technology Architecture – “AS IS”

- Networks and Service Operations have Infrastructure and Processes in Place to Leverage into the Future
- Standards and Total Cost of Ownership Driven
- High Degree of Fault Tolerance
- Limited Voice Over IP Capability, but have Piloted
- Limited Video and Video Conferencing Capability, but can be Leveraged

Operational Architecture – “TO BE”

Anytime, Anywhere Computing



Operational Architecture – “TO BE”

- Create Robust Infrastructure that Supports Anytime/Anywhere Computing
- Continue to be Standards-Based and Total Cost of Ownership Driven
- Increase Continuity of Operation
- Implement Disaster Response and Business Recovery
- Improve Technology Refresh Cycles

Operational Architecture – “TO BE” (Continued)

- Be Flexible and Adaptable to Change
- Provide Infrastructure that Meets Current Needs and Be Scalable to Support Future Needs
- Leverage Existing Technologies to Fulfill New Business Requirements

Operational Architecture Strategies

- Expand Standards for Desktops, Portable/Mobile Devices, Servers, Operating Systems, and Office Automation Software to Support Business Needs
- Maintain and Enhance Network Capabilities to Support Multi-Media Needs
- Maintain and Enhance Redundant and Fault Tolerant Environment

Operational Architecture Strategies (Continued)

- Maintain and Enhance Network Security
- Maintain and Enhance Infrastructure to Support E-Business Expansion
- Expand Voice over Internet Protocol (VoIP)
- Maintain and Enhance Wireless Support
- Expand Video and Video Conferencing Capabilities
- Expand Convergence Technologies
- Implement Portal – Tailored to Job Function

The Plan...

- Identify and Define IT Opportunities in the Context of the "TO BE" Business Model: Application, Information, and Operational Architectures and Strategies
- Use the Normal Procurement Processes to Evolve Toward the VISION
- RFP Statements to Ensure Conformance to VISION and Standards
- Review, Recommend and Quality Assure Responses, Proposals, and Hardware/ Software to Ensure Conformance to VISION and Standards

**Evolution not Revolution,
Always Moving Toward the
VISION...or...One Brick at
a Time**



The End

Detail Technical Slides

- Slides that follow are not part of the high level presentation, but can be used to enhance a more technical presentation and in sequence by reference in the main presentation

VISION Features:

State Enterprise Initiatives/Architectures

- Stay compliant with Statewide policies, guidelines, and standards
- Participate in development
- Initiate when needed
- Keep leadership position

VISION Features:

Pre-Screen Application:

- Socratic Questioner/Expert System
- Browser based-Internet/Intranet
- Client choice results
- Apply or not
- Facilities
- Documents needed
- Locations for service
- Directions to and from services center
- Transportation resources
- Electronic referral/availability

VISION Features:

Leverage legacy systems

- Leverage investment
- Front end with electronic referral and data sharing across programs or program cluster
- Browser enhanced
- Pre-verified data
- Expand use of data warehouse environment as the reporting system

VISION Features:

Application Development System

- Component driven/modular development
- Object oriented libraries
- Web Services libraries
- Data access libraries
- Reusable source
- Reusable object
- Object broker
- Policies/standards requiring use and enhancement
- 3-Tier designs – presentation, business application, data base. Capable of running on 3 Separate Servers in 3 Separate Locations

VISION Features:

Customer/Client Authentication System – to be used by all systems

- Access and verification to all State and federal systems
- Name, address, SS# verification
- Earnings and benefits, information verification
- Asset information verification
- Current/past State program
- Wants/warrants
- AKA identification
- Customer/client index to all systems
- Data quality assurance before entering any system
- Single source of customer/client data

VISION Features:

Provider Authentication System – to be used by all systems

- Access and verification to all State and federal systems
- Name, address, SS# verification
- Earnings and benefits, information verification
- Incorporation data
- Provider index to all systems
- Data quality assurance before entering any system
- Single source of provider data

VISION Features:

Data Availability Subsystem

- Availability to all systems
- Address standardization and verification technologies
- Pre-verified data available to pre-fill screens

VISION Features:

Eligibility System

- Component driven
- Reuse common eligibility components
- Tailored automatically by job function to specific program or program cluster

VISION Features:

Case Management System

- Build on common process framework
- Component driven
- Reuse common case management components
- Tailored automatically by job function to specific program or program cluster

VISION Features:

Claims Processing System

- Component driven
- Reuse common claims processing components
- Tailored to job function
- Integrated to statewide GMIS

VISION Features:

Document Management System

- Workflow driven
- Electronic signature
- Access from anywhere
- Multiple version control
- Records management compliant
- Internet/Intranet accessible

VISION Features:

Data Warehouse

- Access to all FSSA, local, state, federal and business partners information
- Data models of systems and data stores
- Access to information via ETL tools
- Reporting
- Analysis
- Decision support
- Digital dashboard
- Web publishing
- Web access
- Fraud detection
- Secure but sharable
- Enterprise leadership and compliance

VISION Features:

Job Function Driven Portal

- Single sign on
- Access from anywhere—
office, Internet, mobile, home
- Applications tailored by user job function
- Access to all information needed to do job
- Customizable

VISION Features:

Desktop

- Microsoft Office
- Access to all applications
- Access to all information needed
- Convergence capable
- Video capable
- Imaging/document flow capable
- Voice over IP capable
- Customer friendly

VISION Features:

Network

- High performance
- Wired and wireless
- Mobile computing support
- Redundant – no single point of failure
- Scalable
- Video capable
- Imaging/document flow capable
- Voice over IP capable
- Convergence capable

VISION Features:

Platform/Server Environment

- Consolidation to reduce support cost and add flexibility
- Virtual server environment
- Support 3 tiered applications
- Access/gateways/emulation to all systems
- Fault tolerant
- Centrally managed
- Redundant
- Scalable
- Mirrored
- RAID
- SAN